

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A fuel vaporizing device which supplies fuel vapor containing hydrocarbon to a fuel reformer which produces reformat gas having hydrogen as a main component from the fuel vapor by ~~means of~~ a catalytic reaction, comprising:

a fuel vaporizer;

a fuel injector which supplies fuel into the fuel vaporizer during normal running and start-up of the fuel reformer;

an air injector which supplies air into the fuel vaporizer to produce an air-fuel mixture in the fuel vaporizer during the normal running and the start-up of the fuel reformer, an air supply amount of the air injector being controlled in relation to a fuel supply amount of the fuel injector so as to obtain an excess air factor of the air-fuel mixture corresponding to a predetermined rich air-fuel ratio; [[and]]

a glow plug which is disposed downstream of the fuel injector and the air injector in the fuel vaporizer and partially oxidizes the air-fuel mixture produced inside the fuel vaporizer; and

a water injector which supplies moisture to the air-fuel mixture in the fuel vaporizer.

2. (Original) The fuel vaporizing device as defined in Claim 1, wherein the excess air factor corresponding to the predetermined rich air-fuel ratio is within a range of 0.2 to 0.4.

3. (Canceled)

4. (Original) The fuel vaporizing device as defined in Claim 1, wherein the fuel vaporizing device further comprises a member which suppresses flame propagation accompanying the partial oxidation of the fuel inside the fuel vaporizer.

5. (Original) The fuel vaporizing device as defined in Claim 1, wherein the fuel vaporizing device further comprises a valve which supplies secondary air to the fuel vapor produced by the fuel vaporizer.

6. (Original) The fuel vaporizing device as defined in Claim 5, wherein the fuel vaporizing device further comprises a heater which heats the secondary air.
7. (Original) The fuel vaporizing device as defined in Claim 5, wherein the fuel vaporizing device further comprises a controller programmed to control the valve to stop supplying the secondary air when a start-up period of the reformer is complete.
8. (Original) The fuel vaporizing device as defined in Claim 7, wherein the fuel vaporizing device further comprises a sensor which detects a temperature of a catalyst of the fuel reformer, and the controller is further programmed to determine that the start-up period of the fuel reformer is complete when the temperature of the catalyst exceeds a predetermined warm-up completion temperature.
9. (Currently Amended) The fuel vaporizing device as defined in Claim 8, wherein the controller is further programmed to control a secondary air flow rate of the valve such that the excess air factor of the fuel vapor that is supplied to the fuel reformer during the start-up period of the fuel reformer decreases as the temperature of the catalyst rises, an air amount supplied to the fuel reformer is larger than a stoichiometric amount required for the combustion of the fuel vapor during the start-up of the fuel reformer, and the air amount supplied to the fuel reformer is smaller than the stoichiometric amount during the normal running of the fuel reformer.
10. (Original) The fuel vaporizing device as defined in Claim 9, wherein the excess air factor of the fuel vapor that is supplied to the fuel reformer during the start-up period of the fuel reformer is set to a value within a range of 3 to 6.
11. (Original) The fuel vaporizing device as defined in Claim 8, wherein the controller is further programmed to control the fuel injector such that a fuel injection amount of the fuel injector increases as the temperature of the catalyst rises.
12. (New) The fuel vaporizing device as defined in Claim 1, wherein the fuel vaporizing device is adapted to vaporize air-fuel mixture that is not oxidized by the glow plug with heat produced by the partial oxidation of the air-fuel mixture.